AllStart™ Supercapacitors

Auto Engine Ignition (AEI) for light vehicles

Every driver has experienced the frustration of getting into the car with somewhere important to go... only to find that the engine does not start.

In the majority of cases, the battery is responsible for this predicament. Factors such as extreme temperatures, extended operation or battery usage while the engine is shut off can drain a battery to the point that it no longer has the power to start the engine.

Elbit Systems Energy's Auto Engine Ignition (AEI) is specifically designed to provide the burst of high power required to start the car's engine under any circumstances. Anywhere, anytime.

The AEI is a hybrid solution that combines Elbit Systems Energy's unique supercapacitor technology with a standard off-the-shelf battery. This efficient combination provides both the peak power required to restart the engine and support for the vehicle's power requirements. Seamlessly replacing a standard car battery, the AEI recharges directly from the battery circuit, providing reliable power surges during ignition.

Elbit Systems™
Land and C4I

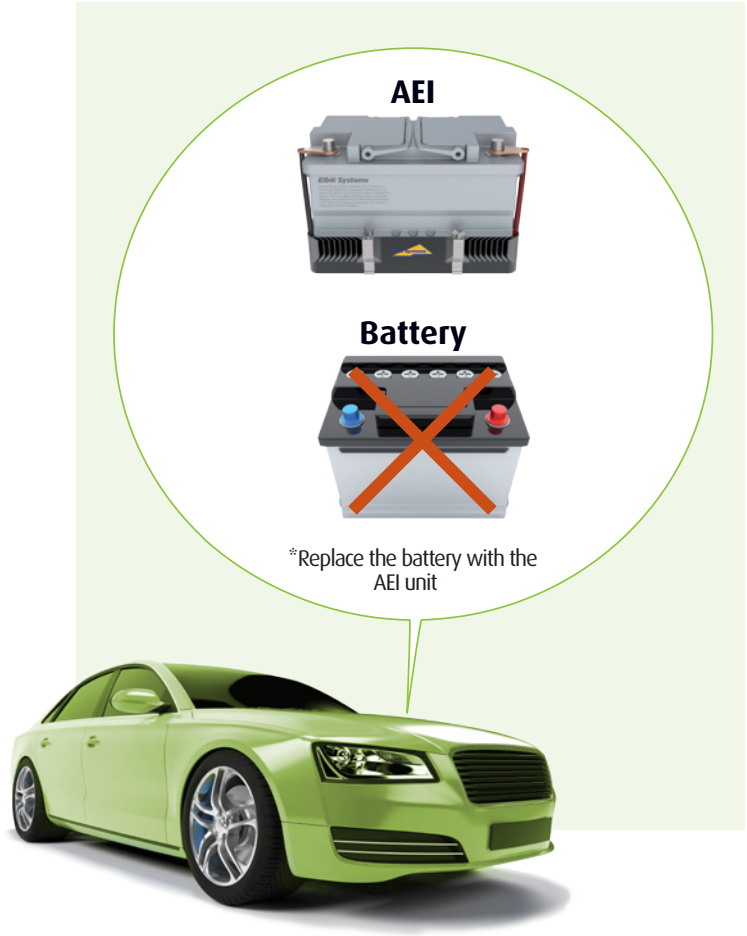
AllStart™ Supercapacitors

Auto Engine Ignition (AEI) for light vehicles

Enhanced power performance – Elbit Systems Energy's AEI ensures dependable vehicle starts even when batteries are discharged or weakened from inactivity or cold temperatures. The AEI eliminates frustrating jump-starts and allows the vehicle to get back on the road without delay.

Low total cost of ownership – By consistently providing thousands of reliable starts — thereby extending the lifespan of the vehicle's lead acid battery — the module yields an affordable cost-saving solution.

Simple installation – Elbit Systems Energy's AEI can be easily installed by replacing the vehicle's standard battery.



Key Benefits

- Eliminates jump-starts
- Reliable starts in cold temperatures
- Optimizes and extends battery lifespan
- Easy installation
- Shock and vibration resistant
- Environmentally-friendly

Product Specifications

Product	Regular Battery	Supercapacitor AEI- Battery +
Engine Start	Not guaranteed	Guaranteed
Lifetime	2-5 years	4-10
Temperature range	Limited	Extended

Elbit Systems Energy's offer a range of products and technologies suited for various high power and high energy applications. Backed by Elbit Systems' four decades of internationally-recognized leadership in providing advanced electronics to customers around the world, Elbit Systems Energy takes pride in its comprehensive R&D covering the development, design and implementation of innovative materials and nanotechnologies for challenging energy density requirements and environments. The company's high levels of technical skills and expertise in multidisciplinary systems have yielded customizable solutions with the optimal balance between power performance, inner resistance, safety, life span and energy density.

Elbit Systems Land and C⁴I Ltd.
2 Ha'machshev St., Netanya 42507, Israel
E-mail: energy@elbitsystem.com www.elbitsystems.com/energy

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